

Mellanox MFA1A00-C020 Datasheet



Mellanox MFA1A00-C020 active fiber cable, ETH 100GbE, 100Gb/s, QSFP, LSZH, 20m

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Mellanox MFA1A00-Cxxx are QSFP28 VCSEL-based (Vertical Cavity Surface-Emitting Laser) active optical cables designed for use in 100Gb/s Ethernet systems.

MFA1A00-Cxxx AOC offers high port density and configurability, and a much longer reach than passive copper cables in the data centers. Since the AOC is hot pluggable, it is easy to install and replace.

MFA1A00-Cxxx has a standard SFF-8665 compliant QSFP28 port on the electrical side towards the host system. It contains four multi-mode fibers (MMF) optic transceivers per end, each operating at data rates of up to 25Gb/s.

MFA1A00-Cxxx offers selectable retiming per lane for both its optical transmitters and receivers for the 25Gbp/s rates, but the AOC also supports lower bit rates without retiming. The transmitters have programmable input equalizers and input squelch function, while the receivers have programmable output amplitude and pre-emphasis.

Mellanox's unique, quality, active, fiber, cable solutions provide power-efficient connectivity for data center interconnects. They enable higher port bandwidth, density and configurability at a low cost and reduced power requirement in the data centers. Rigorous production testing ensures the best out-of-the-box installation experience, performance and durability.

Features

- Up to 100Gb/s data rate
- 4x25G NRZ
- 2.2W power dissipation (typ, each end, with retiming)
- Programmable Rx output amplitude and pre-emphasis
- Programmable Tx input equalizer
- Selectable retiming
- SFF-8665 compliant QSFP28 port
- Single 3.3V power supply
- BER better than 1E-15
- Up to 100m length
- Hot pluggable
- RoHS compliant
- SFF-8636 compliant IC management interface

For more information of this Mellanox MFA1A00-C020, please visit Mellanox website:

https://network.nvidia.com/related-docs/prod_cables/PB_MFA1A00-Cxxx_100GbE_QSFP28_MMF_AOC.pdf

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